AMENDMENTS TO THE SPECIFICATION

Replace the paragraph beginning on page 12, line 14, with the following:

Mask configuration inputs 224b to communication device 300 can be designed using a computing device that has a graphical user interface (GUI) with a library of functions that allow predetermined configuration options, in the present embodiment. Additionally, communication device 300 can be programmed with Fibonacci mask input 224b in a variety of embodiments, thereby providing a significant degree of flexibility. For example, in one embodiment, configuration information is received via wired communications with a computing device, e.g., a workstation. In another embodiment, configuration information can be provided by an electronic storage medium, e.g., CD-ROM. In yet another embodiment, configuration information is received by wireless transmission from another communication device via antenna 301. Furthermore, configuration information is provided at the time communication device 300 is manufactured and/or initially programmed for operation in the field, in the present embodiment. However, in another embodiment, configuration information is dynamically implemented at a time communication device 300 is in operation in the field. Configuration information is received, processed, and implemented via processor 322 and memory 320 which communicate this information and instruction via line 317 to base band processing block 30 306. Within baseband processor, memory can control implementation of configuration information to, and operation of, code generator 330, in the present embodiment. Additional information on the design and implementation of configurations into a configurable communication device is provided in co-pending US patent application serial number ——————,—09/492,634, entitled "IMPROVED APPARATUS AND METHOD FOR 35 MULTI-THREADED SIGNAL PROCESSING" by Subramanian et al.,

attorney docket number MORP-P002. This related application is commonly assigned, and is hereby

incorporated by reference.

Replace the paragraph beginning on page 13, line 11, with the following:

While communication device 300 provides a specific quantity of components that are

arranged in a specific configuration, the present invention is well suited to a wide range of

alternatives. For example, Code generator 330 is a configurable code generator capable of

generating codes for any one of multiple communication protocols. Additional detail on a

configurable code generator is provided in co-pending US patent application serial number

~~————,~~ 09/751,782, now US patent number 6,567,017, entitled "A CONFIGURABLE CODE

GENERATOR SYSTEM FOR SPREAD SPECTRUM APPLICATIONS" by Joel Medlock,

~~attorney docket number 9824-0029-999~~. This related application is commonly assigned, and is

hereby incorporated by reference.

Replace the paragraph beginning on page 19, line 9, with the following:

Flowchart 6100 begins with step 6102 in which a reference code state is received. The

reference code state is received in a code field to which a mask is desired, e.g., a Fibonacci field in

the present embodiment. Step 6102 is implemented by reference code state 254 in Fibonacci field

252 of Figure 2 because a Fibonacci mask is desired in the present embodiment. In the present

embodiment, a reference code state for a nominal LFSR state is utilized. Thus, for example,

iteration '0' of Table 1 described in Figure 2 provides a nominal reference state in the Fibonacci

field 252 that is "1." This state also corresponds to the reference state in the Galois field ~~254~~264, as

also shown as iteration '0' of Table 1.1, with the same state of "1." Thus, there is a one to one

mapping of the reference code state between the Fibonacci field 252 and the Galois field 262.

Replace the paragraph beginning on page 19, line 32, with the following:

In step 6104 of the present embodiment, an output tap location for an LFSR is identified.

Step 6104 is implemented in one embodiment by receiving input ~~430~~412 at computer system 400

of Figure 4. The output tap location is a property of the Fibonacci LFSR whose input 270 provides

the sequences utilized for Galois mask calculation 272 and ultimately transformation matrix

operation 268 of Figure 2. If Fibonacci LFSR 100 of prior art Figure 1A is utilized to provide

Fibonacci LFSR input 270 of Figure 2, then the output tap location corresponds to solid line output

tap location 11. However, any tap location can be utilized for the present invention, providing that

the balance of the steps reflect this location. Following step 6104, flowchart 6100 proceeds to step

6106.